were et Gane

HOW o' Gene

Hitta es Gene

we'll c' Gene

HIV2 of Gene

Mill of Gene

HIY? of Gene

HSYl of Gene

MSV2 on Gene

HSV2 on Gene

MSV? oD Gene MSV1 oD Gene MSV? oD Protein MSV1 aD Protein

MSV2 oD Gene MSV1 aD Gene MSV2 aD Protein HSV1 at Protein

MSV? oD Gene MSV1 oD Gene MSV? oD Protein MSV1 oD Protein

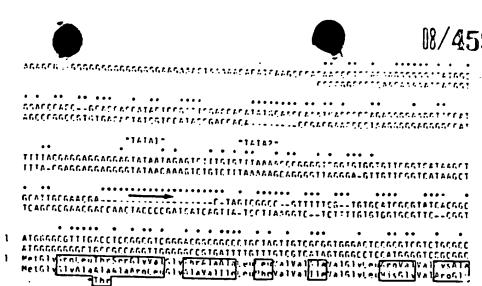
HSV2 aD Gene MSVI of Gene MSV2 of Protein MSV1 of Protein

MSV? a<u>D</u> Gene MSV1 of Gene HSV2 of Protein MSV1 oD Protein

HSV2 of Gene MSV1 of Gene MSV2 of Protein MSV1 of Protein

HSV1 of Gene HSV2 of Protein

MSV1 aD Protein



HSY2	on.	Gene	76	A441455557745544			•	•	• ••	••
		Gene	,,	AAATACGCCTTAGCAG	********	TTAAGATGG	ICCRATERRAI	TCGATTTC	GCGGGAAGAACCTI	CCGGTTTTG .
HSV2	οP	Protein Protein	26	LVSTVPATALQUATAA	saledseri	PULVEMATE		1766677776	GCGGCAAAGACCTT	CCGGTCCTG
				LvsTyrAlaLeuAlaA		EAL AZMELY	ITARSDPFOAS	nargPheA	rofital Asystei	Prnyalleu
HSV?			151	SACCAGCIGACEGACE	• •	*** *	•	• • •	•••	
HSVI				SACCAGETGACEGACE	C1CCCCCCC	16656666	TITACCACAT	<b>TERBEERN</b>	RCCTGGAGGACCCG	TTCCARCCC
		Protein Protein	51	GACCARCTRACCGACC ASDGINLeuThrASDP ASDGINLeuThrASDP	cickaba roproblyv roproblyv	ictertete all volten alardirav	IGIAÇÇAÇAŞ BITVPHISTI BITVPHISTI	73777171941 73777171941 74177171	anginakrong anganginakrapan lyung <mark>enakrap</mark> ro alkan	TTCCAGCCC PheGlnPro PheGlnPro

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MSV7 c) Gene MSV1 oD Gene MSV7 oD Protein MSV1 oD Protein	76	CCCAGCATCCGGATGAGTGTGTACTACGAGTGGTGGAAGGTGCTTGCGGTAGGTGGTGCTACCATGGCCATGG CCCAGCCTCCGGATGACGGTTACCGCCCTGTGGAGGGGGCTGCTGCTGCTGCTACATGGCCACGGTGG ProSer[14] rollethryallyr[vr21avallengluaroalacysArcSqrv3] LengenggTg-laProSer ProSer_edProllethryallyr[lavallen] luArcalacysArcSqrvalLendedpay-laProSer
MSV2 oD Gene MSV1 oD Gene MSV2 oD Protein MSV1 oD Protein	301	GAGNOCCCCARATICATOCACACACACACACACACACACACACACACACACACA

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376	COCATOGGA	SAC	1122	SCGCI	ATCCCC	ATEAFERT	TETOGAE	*******		 naapttattataaaaaa
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	ArometGly	4.1.4	5 n C	VSAL	Herro	lleThrya	1861510	7 we the 61;	, vs , rg.	VERSOLVSSON, MIGT

2501 4041 A
ATGACAGETTTAGEGEESTEAGEGAGGATAACETGGGA ATGACAGETTEAGEGEESTEAGEGATAACETGGGA VPASDSerPheSerAlaValSerGluasdasdeuGly VPASDSerPheSerAlaValSerGluasdasdeuGly

		• •	• •	•
5?6	TISSIGATECASECCES	ARARTTTAR	CECECCTACCTA	CTGCGGCTAGTGAAGATAAACGACTGGACGGAG
	TICCIGATECACCCCC		CCCCCCCCCCCCCCC	CESCOOL FAGISARGETARRESTER TEGRETAGRES
176	Photo: Makking 1.0-		CUMULAGRACATAL	CIGGGGGCCGTGAAGATAAACGACTAGACGAA

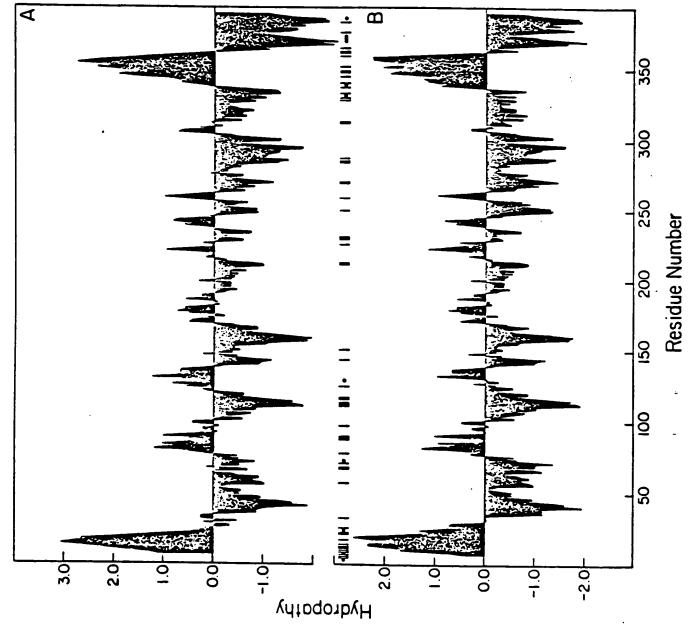
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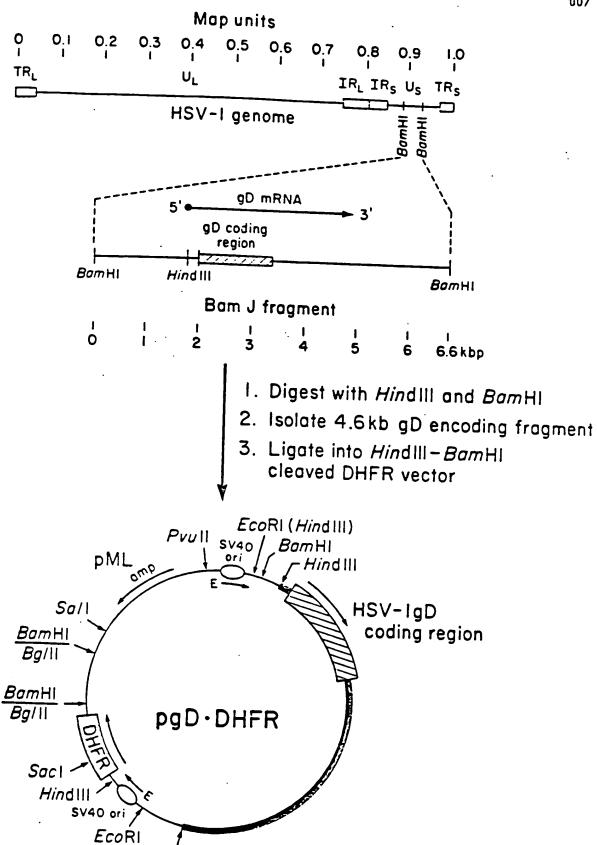
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/ 20	W 19" A2"	מיעטי	rseri	. VSb. IAT VPG	10616	161 2 7 2 1 1	nrvallenca-	ileGlyMetLeuPri lleGlyMetLeuPri	1 O t - N - Do

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751	GAAAACCAGCGCACCGTC	GCCCTATACA	GCTTAAAAATFGFF	GESTEEFALEEFEE			•
r. <b></b>	G TO	A I AL PIEI VE V	OPI Bul wellatt.			-	
	GluAsnGlnAroThrVal	Alayallives	e. (eut 75;18414	3	g. vspra	201 AI	rineser
			* . FEAT APLIENTS		U-LGUIN	1, LU. A1	rinrsor

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HSY7 on Gene
                                                                                                                                                                                                       MSV1 no Gene
MSV2 no Protein
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             MSV1 of Protein
         HSV2 of Gene
HSV1 of Gene
                                                                                                                                                                                                    901 TEGGECETETTAGAGGATECEGECGGGACGGTGTETTTEGGAGATECECCCAAACTGGCAGATECCAGATECAG
TEGGECETETTGGAGGACCCCGTGGGGACGGTGGCGCGCACATECCACCAGACTGGCAGATECCGGTCGATCCAG
301 SeralaleuleugluaspProAlaGlyThrya (Seriem InileProProAsmIrnHislleProSerileGla
SeralaleuleugluaspProValGlyThrya (AlaPro) InileProProAsmIrnHislleProSerileGla
           MSV2 oD Protein
          HSV1 aD Protein
      MSV2 oD Gene
MSV1 oD Gene
                                                                                                                                                                                                                                         HSV7 ch Protein
         HSV1 aD Protein
                                                                                                                                                                                        HSV2 aD Gene
       MSV1 of Gene
MSV2 of Protein
       HSV1 an Protein
                                                                                                                                                                                       HSV2 of Gene
   MSV1 of Gene
HSV2 of Protein
MSV1 of Protein
     HSV? on Gene
                                                                                                                                                                                                                                     CONTRACTOR OF THE PROPERTY OF 
                                                                                                                                                                                                                                    PRABATETADDISAATTODARREERATIONARE CONTINUARIO CONTINUA
     MSV1 aD Gene
  HSV2 aD Gene
                                                                                                                                                                                                                                     ARTTERDANDADTREEDROADERS AND ARTTERDANDAD ARTTERDANDA ARTTERDAND AR
                                                                                                                                                                                                                                     HSV1 oD Gene
 MSV2 aD Gene
MSV1 aD Gene
                                                                                                                                                                                                                                    ADDRESSADA DA TOROS DA DE LA TRADA DE LA TRADA DE LA CONTRES DA CO
                                                                                                                                                                                                                                    CCIGICGCACCACAGCTITTICGCGAACCG-TCCCGTTTT
 HSV2 Open Reading Frame
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MetProGlvAreSerteuGlaGlvLeuAla
 HSV2 oD Gene
                                                                                                                                                                                                                                   ATCCTREGCCTRIREGTCTGCGCCACCRECCTGGTCCGT
MSV2 Open Reading frame
                                                                                                                                                                                                                                   lleLeuflyLeuTrnValCvsAlaThrfilvLeuValAro
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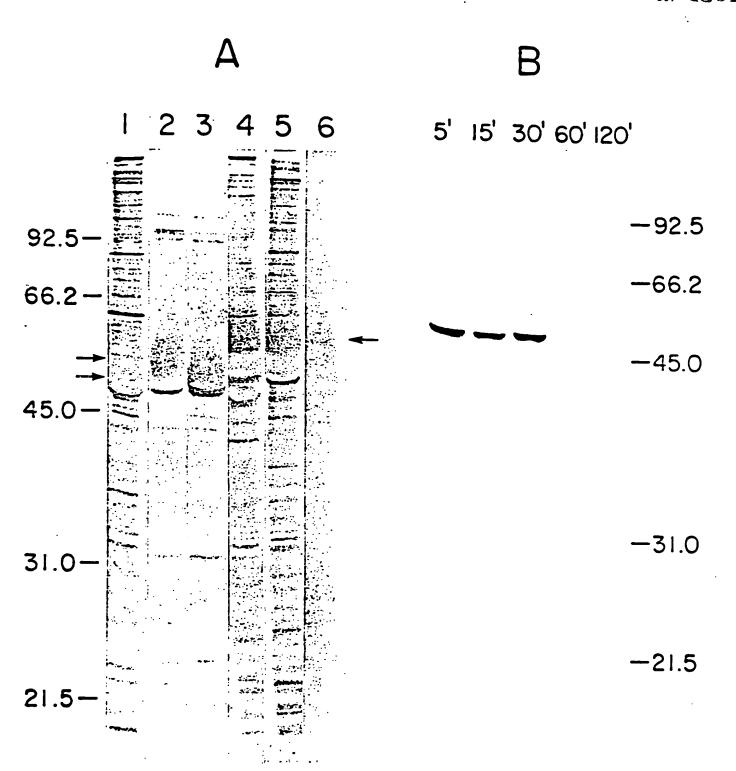


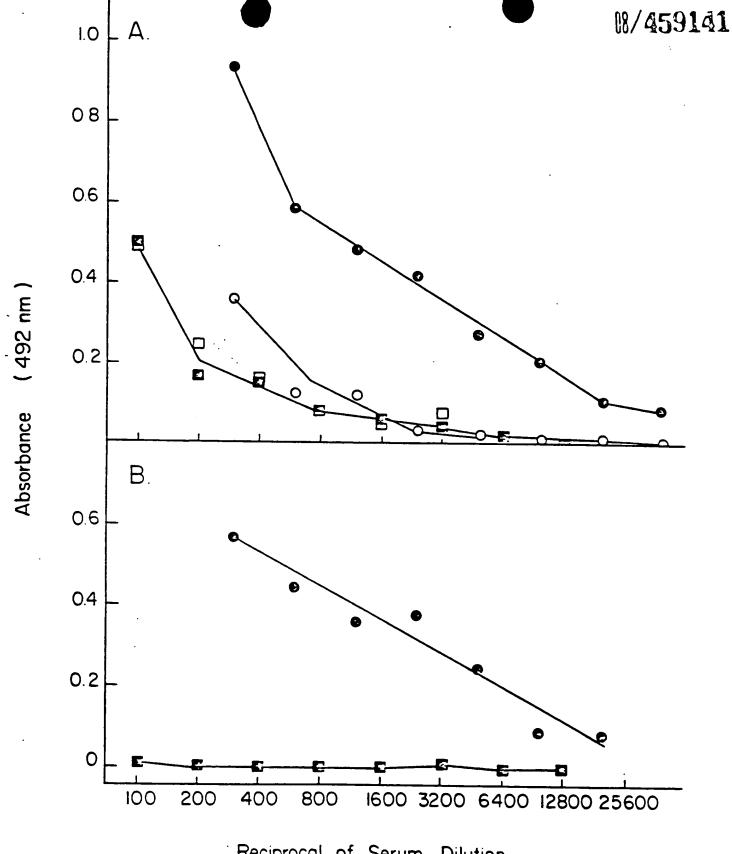
BomHI





FIGURE 4





Reciprocal of Serum Dilution

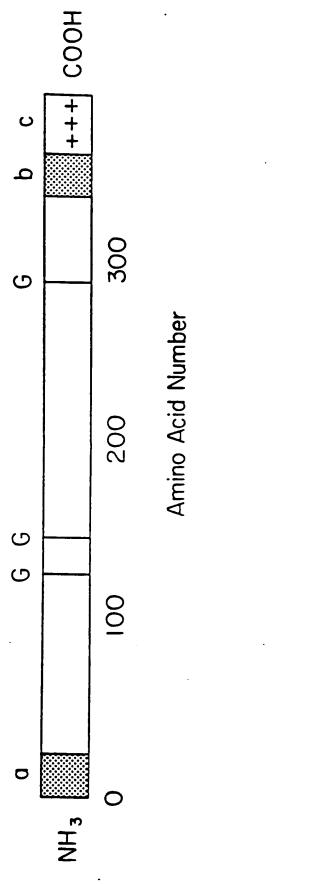
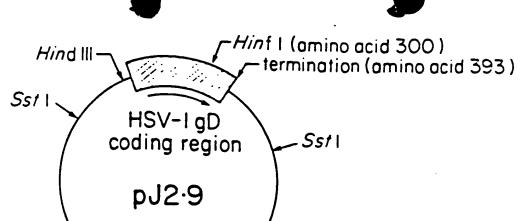
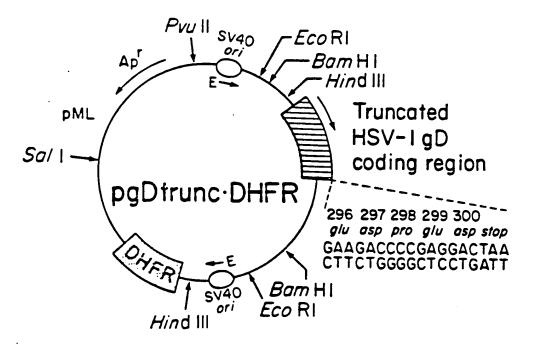


FIGURE 7



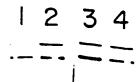
- I. Digest with Hinf I
- 2. Fill in with Klenow DNA polymerase and 4dXTPs
- 3. Digest with Hind III
- 4. Isolate 970bp truncated gD gene
- 5. Ligate to *Hind* III *Hpa* I cleaved DHFR vector



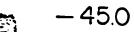
<del>---</del> 21.5

FIGURE 9

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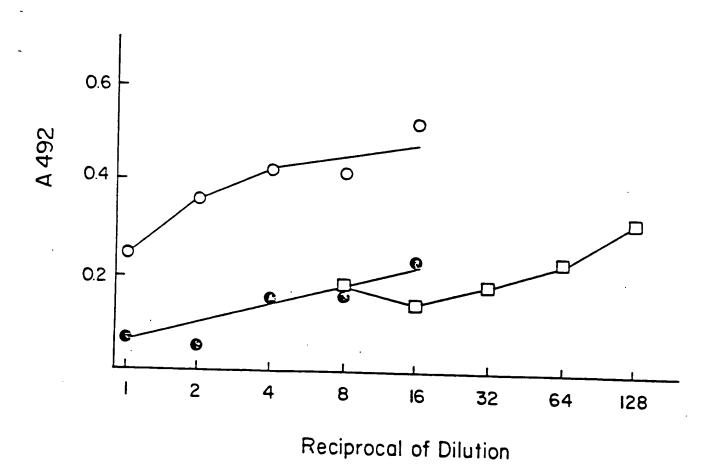


- -92.5
- -66.2



-31.0

-21.0



FIGUPE 11

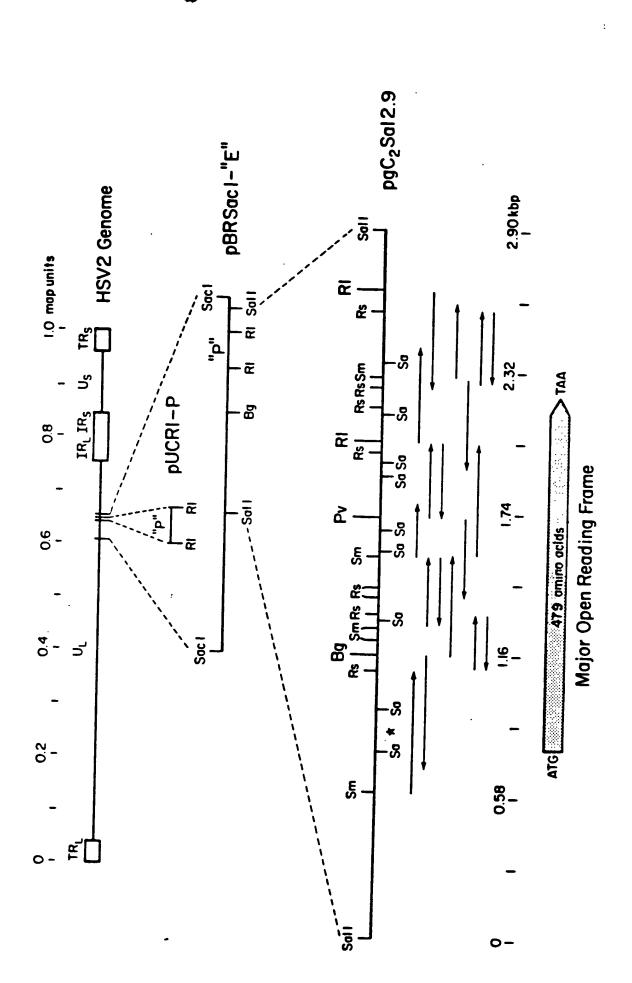


FIGURE 12

HSV-1	6-b. U. JECCCGGGTATAAATTCCGGAAGGGGACAGGGGGG	60
	mRNA 5' end	
	* * * * * * * * * * * * * * * * * * * *	
HSV-1 HSV-2	GTTAGGTTGGGAGGTGGCACAAAAAGCGACACCCGTGTTGTAGTTGTCCGCGGGAGGC	120
HSV-1	GGTCGTTTTTCACTCCCCCC TCCCCCCCCCCCCCCCCCC	
HSV-2	GGTGGTTTCCGGCAACCCTCCTCGCTGCCCGGGCGCCCCCCCGGTCCTTCGCGGGG	180
HSV-1	SGGAGGCGTCGGG-CATGCCCCCCCCCCCCCCCCCCCC	
HSV-2	HSV-1 gt. HSV-2 gF initiation codons	240
HSV-1	* * * * * * * * * * * * * * * * * * *	
HSV-2	CTGTTGTGGCTCGGGGGGGGGGGGGCCGGGGCCCAGGCCCACGCTGCTGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG	300
HSV-1	ATCACCGCGGAGCGGTGACGAACGCGAGCCCCCACATCGGGGTCCCCCGGGTCA	
HSV-S	ATAACGGTGGGCCCGCGGGGGAACGCGAGCAATGCCGCCCCTCG	360
HSV-2	GCCGCCAGCCCGGAAGTCACCCCCACATCGACCCCAAACCCCAACAATGTCACACAAAAC	420
	*******	
HSV-1 HSV-2	AAAACCACCCCCACCGAGCCGGCCAGCCCCCAACAACCCCCAAGCCCACCTCCACGCCCGTCCCCCGGAACCGATCCGCCCCCGAACCACCCCCCCCCC	480
	***** **** **** * ****	
H2A-5 H2A-1	AAAAGCCCCCCCACGTCCACCCCGACCCCAAACCCAAGAACAACACCACCCCCGCCAAGAAG	540
	• • •••• • • • • • • • • • • • • • • • •	
HZA-3	TCGGGCCGCCCCACTAAACCCCCCGGGCCCGTGTGGTGCGACCGCCGCGACCCATTG ACCGGGCCCCGAAGACATCCTCGGAGCCCGTGCGATGCAACCGCCACGACCGCTG	600
HSV-1	• • •	
HSV-2	GCCCGGTACGGCTCGCGGGTGCAGATCCGATGCCGGTTTCGGAATTCCACCCGCATGGAG GCCCGGTACGGCTCGCGGGTGCAAATCCGATGCCGGTTTCCCAACTCCACCCGCACGGAG	660
HSV-1	TICCGCCTCCAGATATGGCGTTACTCCATGGTCCGTCCCCCCAATCGCTCCGGCTCCC	
HSV-2	TOTAL	720
MSV-1	GACCTAGAGGAGGTCCTGACGAACATCACCCCCCCAGGGGGAGGGGGGGG	
HSV-2	TOTAL	780
HSV-1	AGCGCCCCAACCTGACGGACCCCCACGTGCTCTGGGGGGGG	•40
MSV-2	AGCGCCCCAACCGAACGGACCCGCACGTGATCTGGGCGGAGGGCGCCGGCCCGGGCCCC	840
MSV-1 MSV-2	GACCCTCCGTTGTATTCTGTCACCGGGCCGCTGCCGACCCAGCGGCTGATTATCGGCGAG	900
	* **** * * * * * * * * * * * * * * * *	,,,,
HSV-1 HSV-2	GTGACGCCGCGACCCAGGGAATGTATTACTTGGCCTGGGGCCGGATGGACAGCCCGCAC CTGACCTTGGAGACCCAGGGCATGTACTACTGGGTGTGGGGCCGGACGGA	960
	* * * * * * * * * * * * * * * * * * *	
HSV-1 HSV-2	GAGTACGGGACGTGGGTGCGCGTCCGCATCTTCCCCCCCC	1020
	• •	
HZA-S	CACECGGTGATEGAGGGTCAGCCGTTCAAGGCGACGTGCACGGCCGCCGCCTACTACCCG CACECGGTGCTGGAGGGCCAGCCGTTTAAGGCGACGTGCACGGCCGCCACCTACTACCCG	1080
MEV 1	** * * * * * * * * * * * * * * * * * * *	
H2A-5 H2A-1	- CONTROL CONT	1140
HSV-1	ATTGATATGTAGATGTAGTAGTAGTAGTAGTAGTAGTAGT	
HSV-2	THE THE TENED TO T	200
HSV-1	GAGGCTGTCGGCGGCCAGGTCCCCCCCCCCCCCCCCCCC	
HSV-2	GAGGCTGTCGGCGGCCAGGTCCCCCGLGGACCTTCACCTGCCAGATGACGTGGCATCGC GCGGCCGTCGGCGAGGCCCCCGCGCACCTTCACCTGCCAGCTGACGTGGCACCGC	260

HSV-2	GACT. SACGTTCTCGCGACGCAATGCCACCGGGCTGGCCCGGTGCTGCCGCGGCCA GACTCCGTGTCGTCTCTCGGCGCAACGCCAGCGGCACGGCATCGGTGCTGCCGCGGCCA	1320
HSV-2	ACCATCACCATGGAATTTEGGGTCCGGCATGTGTCTGCACGGCCGGCTGCGTCCCCGAG ACCATTACCATGGAGTTTACGGGCGACCATGCGGTCTGCACGGCCGGC	1380
H2A-5	GGCTGACGTTTGCCTGGTTCCTGGGGGACGACCCCTCACCGGCGGCTAAGTCGGCCGTT GGGGTGACGTTTGCCTGGTTCCTGGGGGACGACTCCTCGCCGGCGGAGAAGGTGGCCGTC	1440
HSV-2	ACGGCCCAGGAGTCGTGCGACCACCCCGGGCTGGCTACGGTCCACCCTGCCCATT GCGTCCCAGACATCGTGCGGGCGCCCCGGCACCGCCACGATCCGCTCCACCCTGCCGGTC	1500
HSV-1 HSV-2	TCGTACGACTACAGCGAGTACATCTGCTGGTTGACCGGATATCCGGCCGG	1560
HSV-1 HSV-2	CTAGAGCACCACGGCAGTCACCAGCCCCCACCAGGGACCCCACCGAGCGGCAGGTGATC CTAGAGCACCACGGCAGCCACCAGCCCCCGCGGGGACCCCACCGAGCGGCAGGTGATC	1620
HSV-1 HSV-2	GAGGCGATCGAGTGGGGGATTGGAATCGGGGTTCTCGCGGCGGGGGTCCTGGTCGTA CGGGCGGTGGAGGGGGCGGGGATCGGAGTGGCTGTCCTTGTCGCGGGTGGTTCTGGCCGGG	1680
HZA-5 HZA-1	ACGGCAATCGTGTACGTCGTCCGCACATCACAGTCGCGGCAGCGTCATCGGCGGTAACGC ACCGCGGTAGTGTACCTCACCCACGCCTCCTCGGTGCGCTATCGTCGGCTGCGGTAACTC MSV-1 gC, MSV-7 gF termination codons	1740
HSV-2	GAGACCCCCCGTTACCTTTTTAATACTATATAGTTTGGTCCCCCCTTCTATCCCG CGGGGCCGGGCCGGCCGGT-TGTCTTCTTT-TCCACCCCTTCCGTCCCCGTACCC	1800
HSV-2	CCCACCGCTGGGGGGCTATAAAGCC-GCCACCCTCTC ACCACACCCCACCCCCACCCCCGCCGTCCCCCGGGGGGTTATAAGCCGCCGCACTCGC *TATA 2*	1860
HSV-1 HSV-2	TTCCCTCAGGTCATCCTTGGTC-GATCCCGAACGAGACACGCGTGGAGCAAAA TTTTCCCACCGGAAAATCCTCGGCCCGATCC-GAACGGCGCACGCCGCGTGGGCTCCAAA	1920
HZA-5	CGCCTCCCGGAAGAGCGCCCCGCCCCGAT-ATTCAAGCCCGCGGTGGTGCTCTATGCTTT  MSV-Z second open r  frame initiation co	1980 reading
HSV-1 HSV-2	-CGGGCATCGGAACAGCC-TACCGGCCCCTGGGCCCCGGGACACCCCCCATGCGGGCTCGCCGTGCTTCGCCCCGGCGCCTCCCCCGGCGCCTCCCCCGGCGCCTCGCCCGGCGCTCCCCGGCGCTCGCCCGGGCTCGCCCGGGCTCGCCCGGGCTCGCCCGGGCTCGCCCGGGCTCGCCCGGGCTCGCCGGGCTCGCCCGGGCTCGCCCGGGCTCGCCCGGGCTCGCCCGGGCTCGCCCGGGCTCGCCCGGGCCTCGCCCGGGCTCGCCCGGGCTCGCCCGGGCTCGCCCGGGCTCGCCGGGCTCGCGGGCTCGCGGGCTCGCGGGCTCGCGGGCTCGCGGGCTCGCGGGCTCGCGGGCTCGCGGGCTCGCGGGCTCGCGGGCTCGCGGGCTCGCGGGCTCGCGGGCTCGCGGGCTCGCGGGCTCGCGGGCTCGCGGGCTCGGGGCTCGCGGGCTCGCGGGCTCGCGGGCTCGGGGCTCGCGGGCTCGCGGGCTCGCGGGCTCGCGGGGCTCGCGGGGCTCGCGGGGCTCGCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTCGGGGCTGGGGCTGGGGCTGGGGCTGGGGCTGGGGCTGGGGCTGGGGCTGGGGCTGGGGCTGGGGGCTGGGGCTGGGGGCTGGGGGCTGGGGCTGGGGGCTGGGGCTGGGGCTGGGGCTGGGGGCTGGGGGCTGGGGGG	2040
HSV-1 HSV-2	GCTCCCGCCGCGGCCTGGGTTGGCGTCGGGACCATCATCGGGGGAGTTGTGATCATTGC TGTTCCGGCCGTGGCCTGGATCGGCGTCGGAGCGATCGTCGGGGCCTTTGCGCTCGTCGC	2100
MSV-1 MSV-2	CGCGTTGGTCCTCGTGCGCCTCGCGGGCCTCGTGGGCACTTTCCCCATGCGACAGCGGATG CGCGTTGGTTCTCGTACCCCCTCGGTCCTCGTGGGGACTCTGCCCGTGCGACAGCGGCTG	2160
HSV-1 HSV-2	GCACGAGTTCAACCTCGGGTGCATATCCTGGGATCCGACCCCATGGAGCACGAGCAGGC GCAGGAATTCAACGCGGGGATGCGTCGCGTGGGACCCCACCCCGTCGAGCACGAGCAGGC	2220
HSV-1 HSV-2	SETCEGCEGCTGTAGCGCCCCGGCGACCCTGATCCCCCGCGCGGCTGCCAAACAGCTGGC GGTCGGCGGCTGCAGCGCCCCCCCTTATCCCCCGTGCGGCCGCCAAGCACCTGGC	2280
MSV-1 MSV-2	CGCCGTCGCACGCGTCCAGTCGGCAAGATCCTCGGGCTACTGGTGGGTG	2340
HZA-5 HZA-1	CATTCGGGCCCGCCTGCGGCTCGTCGACGGCGTTGGCGGTATTGACCAGTTTTGCGAGGA CATCCGGACCTGTCTGAGACTCGTCGACAGCGTCAGTGGCATCGACGAGTTTTGCGAGGA	2400
HSV-1 HSV-2	GCCCGCCCTTCGCATATGCTACTATCCCCGCAGTCCCGGGGGCTTTGTTCAGTTTGTAAC	2460
HSV-1	TTCGACCCGCAACGCGCTGGGGCTGCCGTGA	2491

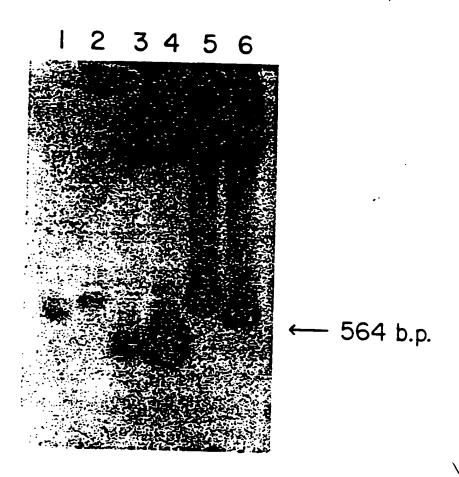
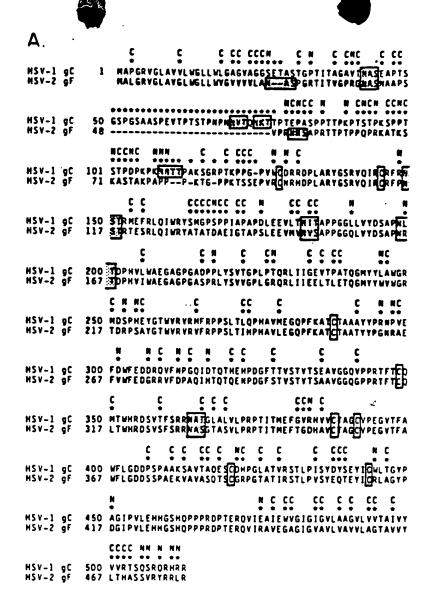


FIGURE 14



B.

MSV-2 730DD ORF
MSV-1 730DD ORF

C C C C CCCCC

MAFRASGPAYQPLAPRPPPARARYPAVAWIGVGAIVGAFALVAALVLVP

C C C C C C C

MSV-2 730DD ORF
MSV-1 730DD ORF
MSV-1 730DD ORF
MSV-2 730DD ORF
MSV-1 730DD ORF
MSV-1 730DD ORF
MSV-2 730DD ORF
MSV-1 730DD ORF

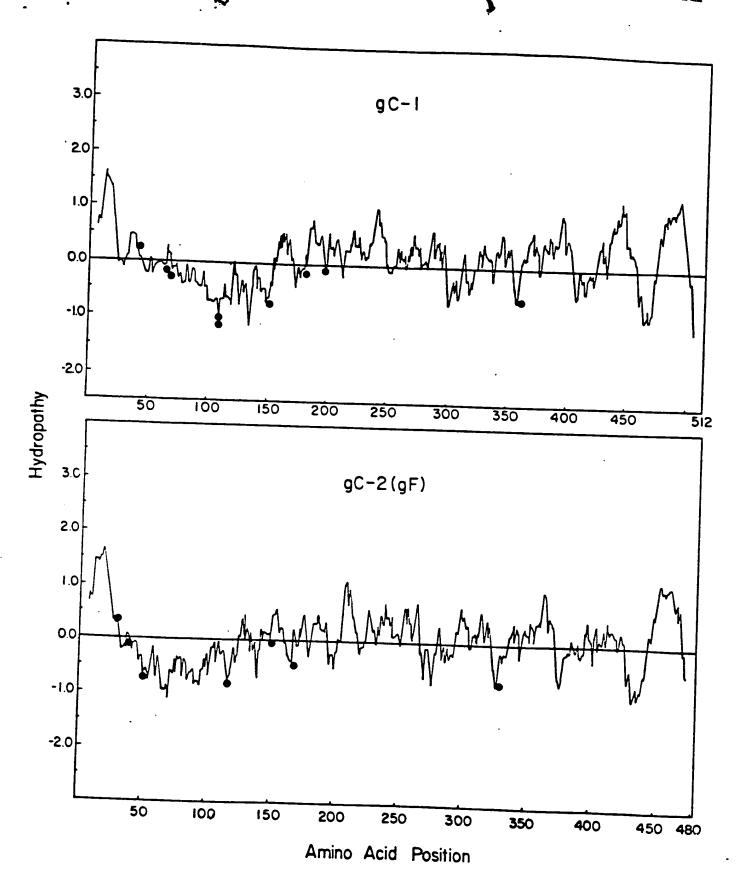


FIGURE 16

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